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Academy of Science, Engineering and Mathematics 2010-2011 Assessment Guidelines

The **Academy of Science, Engineering and Mathematics** offers four academic pathways in the following areas of study:

- **Project Lead The Way Pre-Engineering in Aerospace Science:** Students in this pathway will develop thinking skills by solving real-world engineering problems. They will produce, analyze, and evaluate models of project solutions and digital circuitry using industry-standard computer software. They will design and build solutions to authentic engineering problems. They will apply scientific and engineering concepts to design materials and processes that directly measure, repair, improve, and extend systems in different environments.
- **Environmental Science:** Students in this pathway will investigate the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify environmental problems both natural and human-made, analyze the relative risks associated with these problems, and examine the alternative solutions for resolving and/or preventing them.
- **Biomedical Science/Allied Health:** Students in this pathway will investigate the scientific principles, concepts, and methodologies required to understand the knowledge that underlies human biology and its relationship to health, medical science, and biotechnology. Courses are designed to give students fundamental knowledge of biotechnology and to then apply that knowledge to understand the role of biochemical processes.
- **Mathematics:** Students in this pathway will learn mathematics through the use of technology. They will develop a pure understanding of the connections between Algebra and Calculus. Students will also explore viable careers in the field of mathematics.

BCPS Magnet EXPO!: **Saturday, October 3, 2009** **10:00 a.m. - 2:00 p.m.**
Crowne Plaza Timonium

Open House: **October 21, 2009** **6:00 - 8:00 p.m.** **Chesapeake High**

Application Deadline: **November 30, 2009**

Application packets are available at www.bcps.org/offices/omp. Applications must be received or postmarked on or before November 30, 2009. Late applications are not processed.

Applications MUST be mailed to:
High School Magnet Application
Office of Magnet Programs
6901 Charles Street
Towson, MD 21204

It is the parent's/guardian's responsibility to submit a complete application and a copy of all report card grades for the 2008-2009 school year.

Assessment reminders will be mailed to all applicants.

*Parents/Guardians of applicants who have NOT received notification at least five (5) days prior to the assessment date **MUST** contact the school to verify/schedule an appointment.*

Pre-Assessment Workshop: December 10, 2009 5:30 - 6:30 p.m.

For further information on preparing for the assessments, a workshop will be held on Thursday, December 10, 2009 from 5:30 – 6:30 p.m. in the CHS Library Media Center.

Assessment: January 23, 2010 8:30 a.m. - 12:30 p.m. Assessments by Appointment

Appointments for assessments will be taken after December 15, 2009. Please contact Corri Perrini, CHS Magnet Coordinator, at (410) 887-0341 or by email at cperrini@bcps.org, to schedule a time for the assessment. Applicants are required to complete a project that demonstrates interest in the program prior to coming to the assessment.

Failure to attend an assessment WILL result in disqualification.

Inclement Weather: In the event that schools are closed due to inclement weather, weeknight magnet assessments will be postponed. Weekend magnet assessments will be postponed if the snow emergency plan is put into effect for Baltimore County. Postponed assessments will occur on the designated inclement weather date.

Inclement Weather Date: Wednesday, January 27, 2010

Directions to Chesapeake:

From I-95 North or South, exit onto I-695 East toward Essex
Take the LEFT exit onto Route 702
At Traffic Circle, take second RIGHT, staying on Route 702
Turn LEFT onto Turkey Point Road
Go through one stop sign
Chesapeake HS will be on the right

Academy of Science, Engineering and Mathematics

Assessment Information

Demonstration of Interest

This MUST be completed prior to coming to the audition.

Students must complete a project, following the guidelines provided. The project will provide the student an opportunity to share his/her personal qualities, experiences related to the academy to which he/she is applying, and future goals. Students are to bring the project with them to the assessment. **Do NOT submit the project with the magnet application.**

Applicants who do not come to the assessment with the required project will not be allowed to participate in the interview process and may be disqualified.

On the Day of the Assessment

The assessment takes about 1 hour.

Applicants must bring their finished project to the Assessment. Failure to bring the project to the assessment may result in disqualification. A required interview will be administered by a Chesapeake High School staff member. The interview questions will be based on the applicant's finished project. A math assessment will be administered, which will assess applicant's knowledge of pre-algebra and first semester Grade 8 algebraic concepts.

Applicants should arrive at least 15 minutes before their scheduled appointment time. Applicants should be accompanied by at least one parent/guardian. Applicants will register for the assessment in the Library Media Center. On average, the assessment takes approximately 1 hour. Parents/guardians are asked to stay during the assessment. Seating will be available in the school for parents/guardians.



DEMONSTRATION OF INTEREST

Please bring the **completed** project to the Interview Session. Project will be assessed as part of the interview process. Include the student's name, current middle school, and contact information (address, phone, email) on the project.

**DO NOT SUBMIT PROJECT WITH YOUR BCPS MAGNET APPLICATION.
PROJECTS WILL NOT BE FORWARDED TO CHS.**

The magnet academies at Chesapeake High School are looking for students who welcome academic challenges and are focused on their goals for the future.

Think about the academy to which you are applying. To assist you in your interview, create a project that communicates why you want to be a member of this academy at Chesapeake High School.

Use the guidelines below to help you plan your project. Be sure that your finished project portrays your personal qualities, past/present experiences, and your goals for the future, as well as how they are related to the academy to which you have applied.

→ **Personal Qualities:**

- include personal qualities that you exhibit in your daily life as you pursue your studies, interests, hobbies and extra curricular activities.

→ **Experiences Related to this Academy:**

- include at least one academic achievement that you were motivated to accomplish (*think about school projects, class activities, awards, etc.*)
- include at least one experience you have had, past or present, that is related to the academy to which you are applying.

→ **Goals for the Future:**

- identify your career interests and their relationship to the academy to which you are applying.
- include the goals you wish to achieve and how they are related to your career interests.

The project you create can be **one** of the following, but you are **not limited** to the following list. Use your imagination!

- collage
- poster
- shadow box
- brochure
- model

- painting/drawing
- essay (limit to 300 words)
- digital project*

* If you create a digital project, be sure to bring a laptop and/or other resources to display it.

CHESAPEAKE HIGH SCHOOL APPLICANT SELF-EVALUATION 2010-2011

Academy of Science, Engineering & Mathematics

DO NOT include this worksheet with your application.

Important: All applications must be postmarked by the application deadline of **November 30, 2009**. Incomplete applications will not be considered for admission.

Admission Criteria

Magnet Program	Admission Criteria
Academy of Science, Engineering & Mathematics	<ul style="list-style-type: none"> ✓ Algebra I or higher in Grade 8 ✓ "B" average (2.5 or higher) in Mathematics and Science ✓ "C" average (1.5 or higher) in English/Language Arts and Social Studies ✓ Satisfactory Attendance (94% or higher) ✓ Interview ✓ Demonstration of Interest Project ✓ Math Assessment

Magnet Assessment Date

All assessments are by appointment. On January 23, 2010 from 8:30 a.m.-12:30 p.m., (inclement weather date: January 27, 2010) Academy of Science, Engineering & Mathematics. All students will be required to attend the assessment held at Chesapeake High School. Students must complete and bring the required "Demonstration of Interest" project to the assessment. Students should be accompanied by at least one parent/guardian.

Placement Prior to the Lottery

According to Superintendent's Rule 6400, *at the high school level where the number of qualified applicants exceeds the number of available seats, up to 20% of the seats may first be filled with candidates who show exceptional commitment and promise in the specialized program as evidenced by their performance on the approved magnet assessment(s). The remaining seats will be filled using the centralized random lottery selection process from the remaining pool of qualified applicants.* Specifically, students who earn the highest combined score on the project, interview and math assessments may fill up to 20% of the seats available in the magnet program.

Qualifying for Admission

The applicant must earn 80 points from the stated criteria in order to qualify for admission.

How to Calculate Your Grade Average

Convert your marking period grades to points (A=4, B=3, C=2, D=1, E=0). Then divide by the number of marking periods.

Subject	Grade 7 1 st marking pd. grade/points	Grade 7 2 nd marking pd. grade/points	Grade 7 3 rd marking pd. grade/points	Grade 7 4 th marking pd. grade/points (if applicable)	Grade 8 1 st marking pd. grade/points	Total Points	Total Marking Periods (4 or 5)	Grade Average
Lang Arts/English								
Social Studies								
Math								
Science								

CHESAPEAKE HIGH SCHOOL APPLICANT SELF-EVALUATION 2010-2011

Academy of Science, Engineering & Mathematics

Criteria	Scoring Method	My information	My Score (CIRCLE POINTS EARNED)	
Admission Criterion #1 Math Enrollment	Algebra I	Algebra I and higher 10 points	In Grade 8, my math course is _____ (record math course here)	10 points
		Algebraic Thinking 2 5 points		5 points
		Pre-Algebra, Math 8, or below 0 points		0 points
Admission Criterion #2 Grade Average (see "How to Calculate Your Grade Average")	C average or higher (1.5 or higher) in LA/English and Social Studies	Language Arts/English and Social Studies: Score 5 points for each average equaling "C" or higher (1.5 or higher). 5 points	Lang. Arts/English Average:	5 points or 0 points
		Score 0 points for each average less than "C" (less than 1.5) 5 points	Social Studies Average:	5 points or 0 points
	B average or higher (2.5 or higher) in Science and Mathematics	Math and Science: Score 15 points for each average equaling "B or higher" (2.5 or higher). 15 points	Mathematics Average:	15 points or 0 points
		Score 0 points for each average less than "B" (less than 2.5) 15 points	Science Average:	15 points or 0 points
Admission Criterion #3 Attendance	94% Attendance Total absences in Grade 7 -plus- first quarter of Grade 8	Total absences in Grade 7 -plus- first quarter of Grade 8 equals 14 days or less. 10 points	Total days absent in Grade 7 (All quarters) = _____ days -plus- Total days absent in Grade 8 (First quarter only) = _____ days Total days absent = _____ days	10 points or 0 points
		Total absences in Grade 7 -plus- first quarter of Grade 8 equals 15 days or more. 0 points		
Admission Criterion #4 Interview	Score determines total points earned.	Applicants may earn up to 20 points.	To be determined on January 23, 2010.	Up to 20 points may be earned.
Admission Criterion #5 Math Test	Score determines total points earned.	Applicants may earn up to 10 points.	To be determined on January 23, 2010.	Up to 10 points may be earned.
Admission Criterion #6 Project	Score determines total points earned.	Applicants may earn up to 10 points.	To be determined on January 23, 2010.	Up to 10 points may be earned.
Points to Qualify	80 points	My Score: _____		

This worksheet is for STUDENT/PARENT USE ONLY.

DO NOT include this worksheet with your application.